

#### JUNE 2014 Weather Summary

June 2014 got off to a sizzling start by experiencing record breaking heat through the first 6 days of the month. El Paso International Airport broke daily record highs on the 2<sup>nd</sup> through the 5<sup>th</sup>, culminating with peak temperatures of 109 degrees on the 3<sup>rd</sup>. (see graphic). It wasn't just the afternoons that were hot; many of the mornings of June remained quite warm. El Paso set daily high minimum temperature records on 3 different days, and on the 27<sup>th</sup> only "cooled" to 83 degrees, not only breaking the daily record but tying the monthly record. June 2014 finished as one of the warmest Junes on record. At El Paso Intl Airport, the average monthly temperature of 87.9 degrees was the second warmest of all time. Santa Teresa recorded their 3<sup>rd</sup> all time warmest average monthly temperature.

June is typically the month when the annual monsoon pattern begins to take shape. There were several times in June where the pattern looked like it would set up into the monsoon, but these occurrences were all false starts. The month was abnormally dry for the most part. The only major area to see above normal rainfall was in Hudspeth County south and east of Sierra Blanca. There were still stormy days, and much of the month set up for an environment that supported strong downburst winds from the thunderstorms. Thunderstorms on the 13<sup>th</sup> produced strong winds. 50-60 mph winds were felt at many sites, though no significant damage was reported (see severe weather report page).

#### JUNE 2014 Weather Summary-continued

A non-weather related event, but quite interesting event occurred on the 28<sup>th</sup>, as an earthquake was felt across much of southern New Mexico and far west Texas. The location of the earthquake was detected about 30 miles northwest of Lordsburg.

On June 21<sup>st</sup> the Summer Solstice took place, meaning daylight will become less and less each day after until the Winter Solstice. This doesn't end summer however, as as there is a climatic lag from the the solstice to when average temperatures begin declining. That date just happens to be July 10, the first day when our temperatures actually begin cooling.

Significant Events

Tuesday's Record Highs



Tor C Old Record 98 Las Cruces
Old Record 103



Cloudcroft Old Record 80



Alamogordo Old Record 97



#### June 2014 Significant Events

Earthquake

M5.2

50km NW of Lordsburg, New Mexico

**Event Time** 

Jun 29, 2014 04:59:33 UTC 10:50:33 MDT

Location

32.607°N 109.151°W depth=5.0km (3.1mi)

**Nearby Cities** 

1.50km (31mi) NW of Lordsburg, New Mexico 2.83km (52mi) WSW of Silver City, New Mexico 3.136km (85mi) WNW of Deming, New Mexico 4.144km (89mi) NNE of Douglas, Arizona 5.288km (179mi) ESE of Phoenix, Arizona

2014-06-28 10:59:33 MDT SEUS64 KEPZ 290539 EQREPZ NMZ401>417-TXZ418>424-290845-

EARTHQUAKE REPORT RELAYED BY NATIONAL WEATHER SERVICE EL PASO TX/SANTA TERESA NM 1139 PM MDT SAT JUN 28 2014

AN EARTHQUAKE HAS BEEN FELT MODERATELY BY MANY PEOPLE IN THE SILVER CITY AREA OF SOUTHWESTERN NEW MEXICO. NONE OF THOSE REPORTS INDICATED ANY DAMAGE. THIS EARTHQUAKE WAS ALSO REPORTED AS MODERATE IN STRENGTH IN TRUTH OR CONSEQUENCES AND DEMING NEW MEXICO. WEAK TREMORS WERE ALSO REPORTED FROM MULTIPLE LOCATIONS ACROSS EL PASO TEXAS. PRELIMINARY REPORTS FROM THE USGS INDICATE THE EARTHQUAKE WAS A MAGNITUDE 5.2. IT'S EPICENTER WAS LOCATED 31 MILES NORTHWEST OF LORDSBURG NEW MEXICO OR 6 MILES SOUTHWEST OF DUNCAN ARIZONA. THE DEPTH OF THE EPICENTER WAS 3.1 MILES. MORE INFORMATION WILL BE PROVIDED AS IT BECOMES AVAILABLE FROM THE NATIONAL EARTHQUAKE INFORMATION CENTER IN GOLDEN COLORADO.

Earthquake
M5.2
50km NW of Lordsburg, New
Mexico
2014-06-28 10:59:33 MDT

70 Alamogordo (152) Lincoln National Safford Silver City 90 32°36'00.0"N 191 1'09°09'00.0"W 773 (506) Las Cruces Deming (213) (70) (70) (186) 338 Northeast El Paso (181) {191} El Paso (375) Ciudad Juare Douglas Médanos de Samalayuca Natural Protected Area Lightshake felt at FAA Control Tower at KELP



#### Significant events-continued

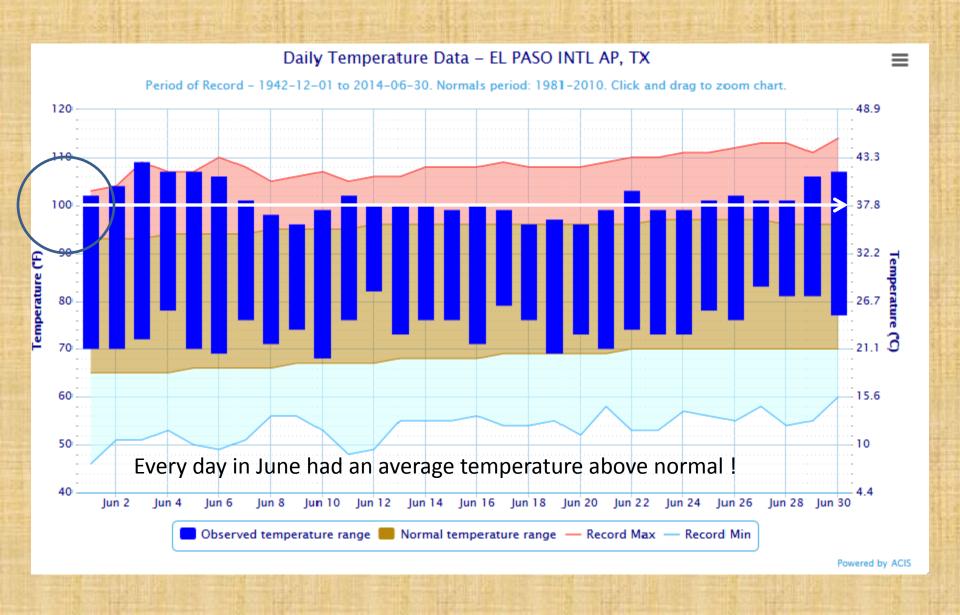
# IT WAS A HOT DRY MONTH

F6 EL PASO RECORDS

## Special Features

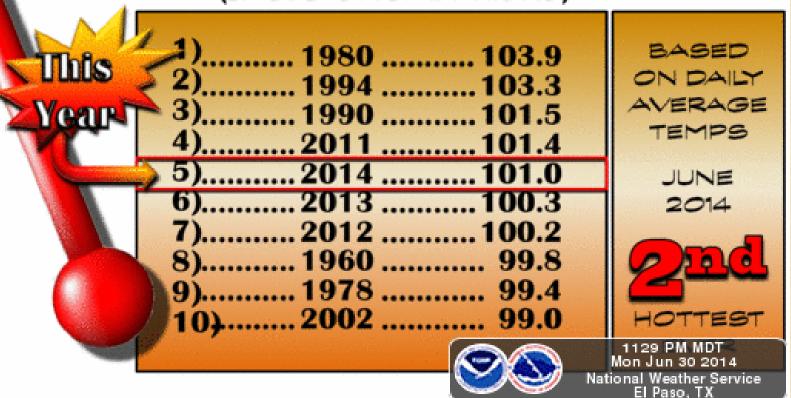
#### **SUMMER SOLSTICE June 21 4:51 MDT**

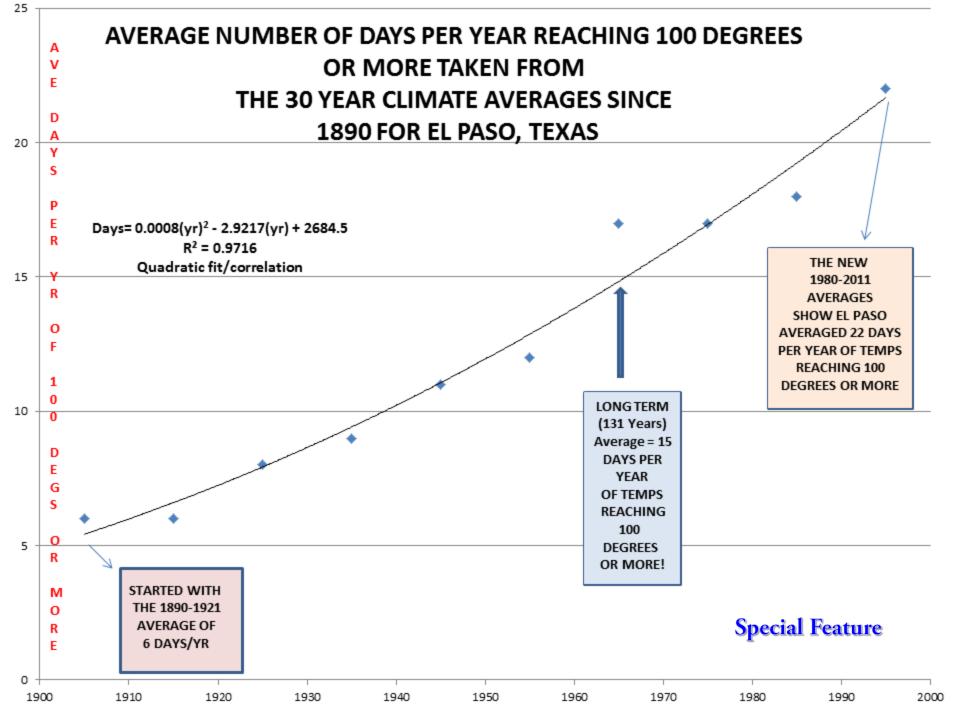






(BASED ON DAILY HIGHS)







# FOR SOME HOT FACTOIDS ABOUT TRIPLE DIGIT TEMPERATURES (100 F / 37.7777C) IN EL PASO TEXAS VISIT

http://www.srh.noaa.gov/epz/?n=elpaso\_100\_degree\_page

# AS USUAL TRAFFIC CAMS WEST OF LORDSBURG NEW MEXICO SHOWED BLOWING DUST KICK UP IN STRONG WINDS... ALWAYS AN EXCELLENT WARNING INDICATOR TO SLOW DOWN... TURN ON LIGHTS...AND POSSIBLY PULL ASIDE TO AVOID THE PROBLEM ALTOGETHER. JUNE 13



#### **JUNE 13**



## **Thunderstorms Create Strong Winds**



Thunderstorm Wind Gust Front Approaching NWS Office At 3:45 pm

- High Based T-Storms
- Light Rain Filaments
- Dust Band Near The Ground





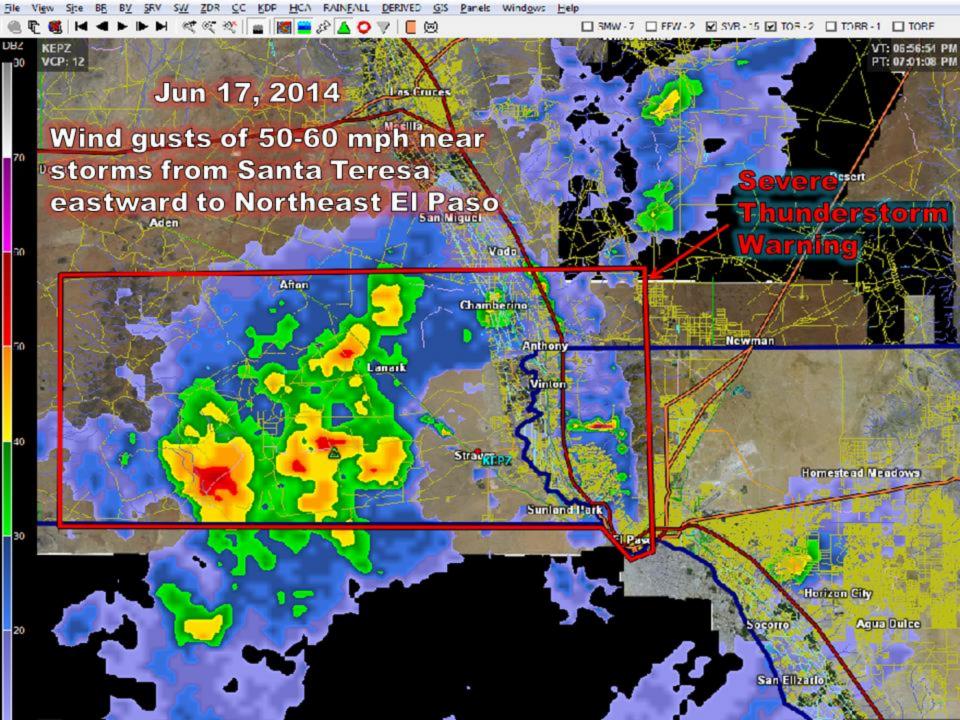


Thunderstorm Wind Gust Front Reaches NWS Office At 4:00 pm

- 60+ mph winds
- Blowing Dust
- Zero Visibility

### 6/13/2014 0510 PM BILLBOARD DAMAGE NEAR INTERSTATE 10 AND REDD ROAD IN WEST EL PASO...EST. 55-60 MPH CONVECTIVE GUST







#### NATIONAL WEATHER SERVICE



### Severe Thunderstorm Watch



**US National Weather** Service El Pasc Texas

Follow us on Twitter @NWSEIPaso



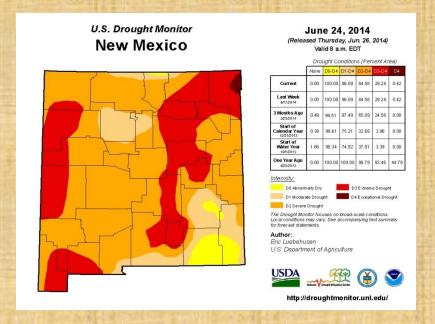


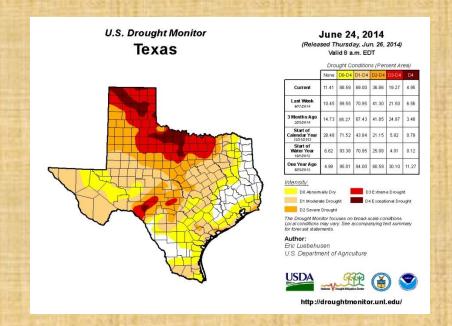
#### OTERO COUNTY

SUPERCELLS CAPABLE OF PRODUCING **LARGE HAIL &** DAMAGING WIND **GUSTS. TSTMS MAY EVENTUALLY CONGEAL INTO CLUSTERS/LINE** SEGMENTS VIA STORM/OUTFLOW INTERACTIONS.

#### Current drought conditions as of June 24

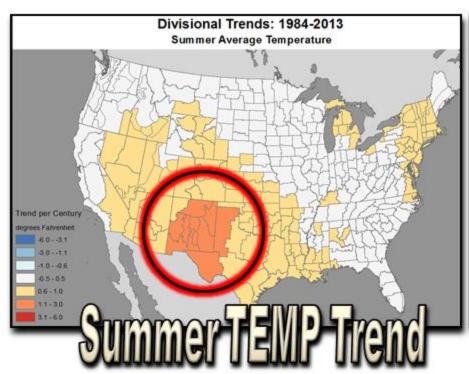
Abnormally Dry – D0
Moderate Drought – D1
Severe Drought – D2
Extreme Drought – D3
Exceptional – D4

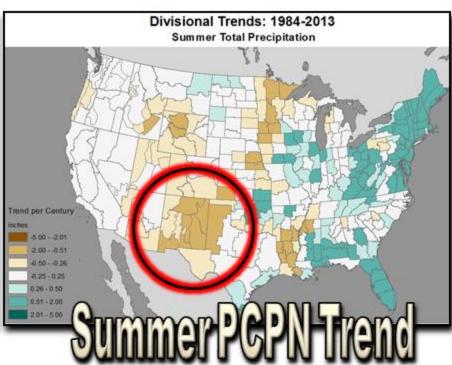


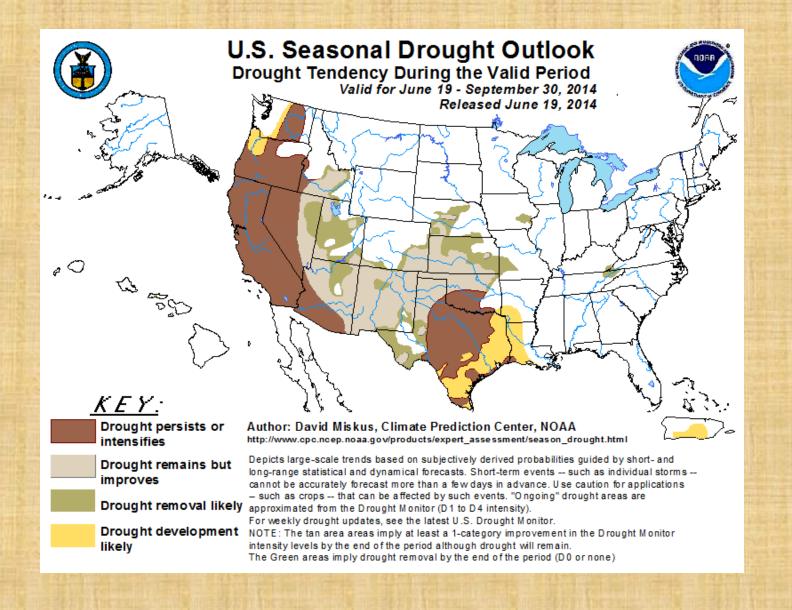


## AS Bad as it Gets New Mexico & Far West Texas

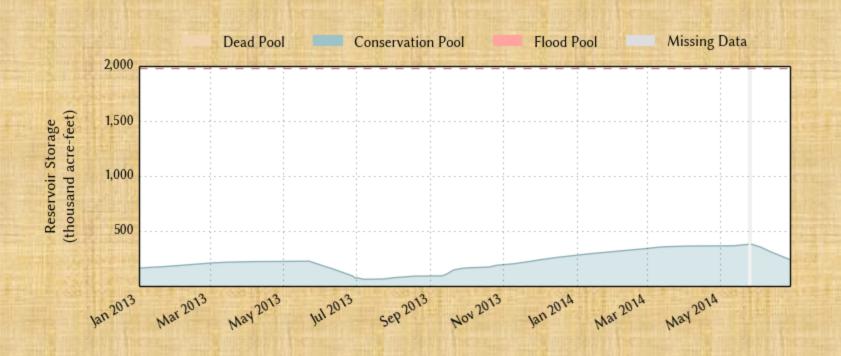
The following maps show, for each climate division, how summer (June-August) precipitation & temperature has trended during the last 30 years.



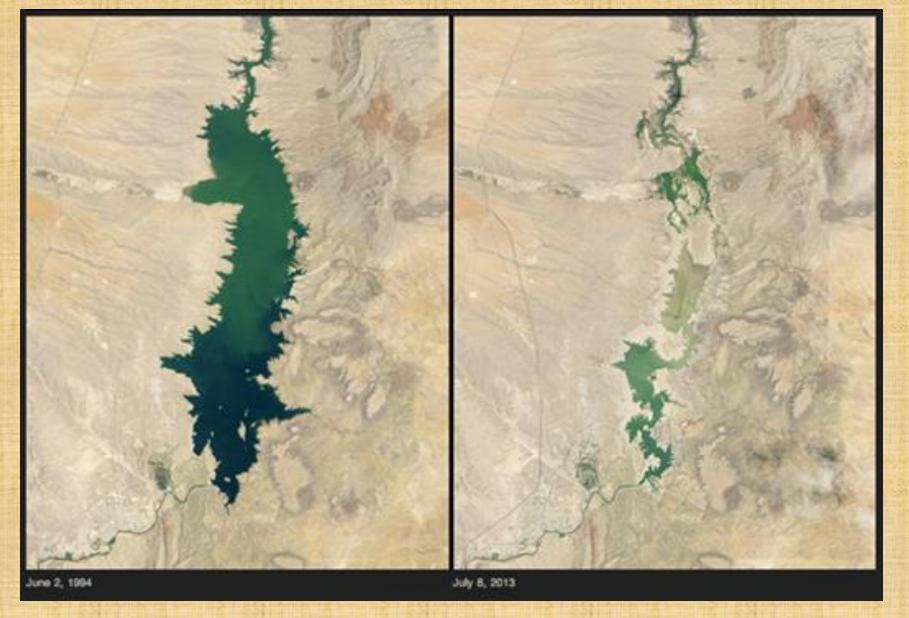


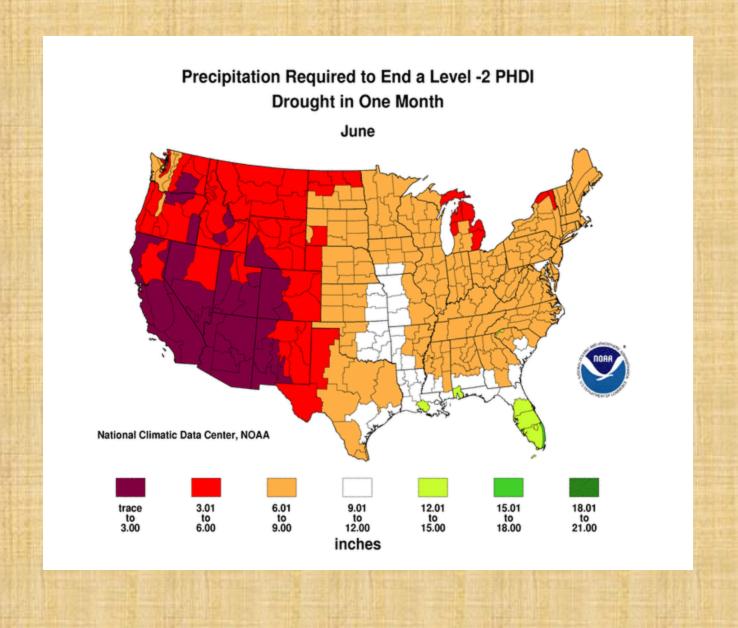


# Elephant Butte Lake is 12.1% full as of 2014-06-28

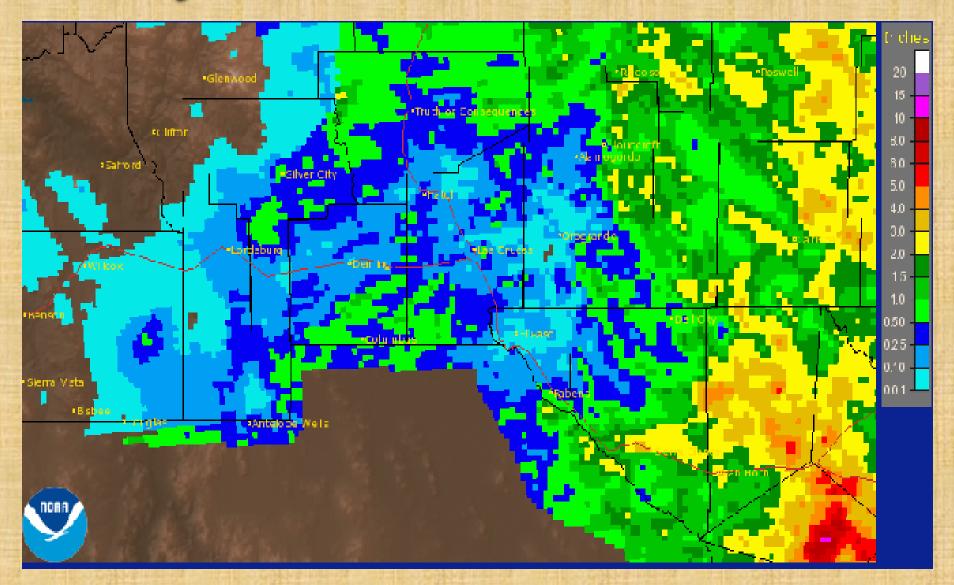


#### **ELEPHANT BUTTE JUNE 2004-----**→ JULY 2013



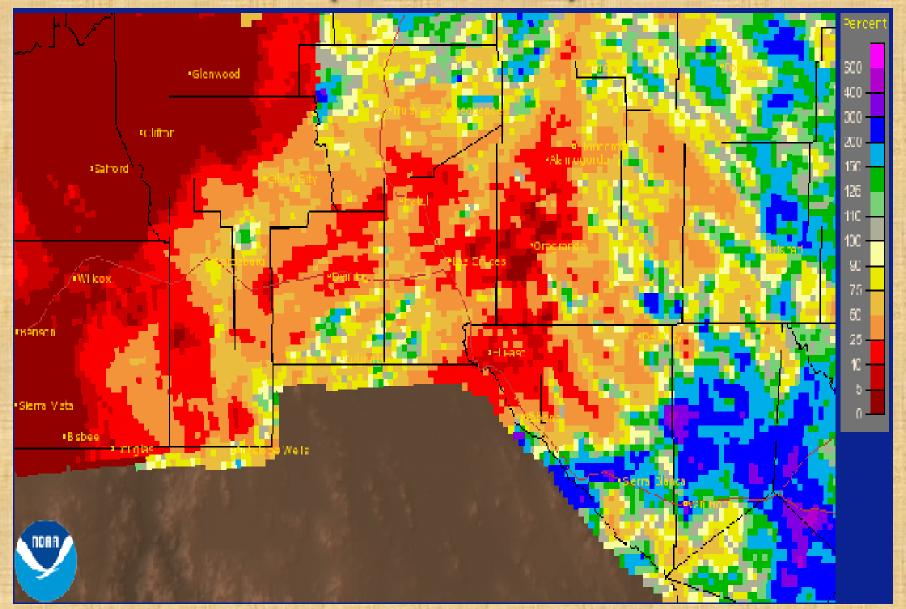


# Temperature and precipitation June 2014 Radar Rainfall Estimate



#### June 2014 Radar Rainfall Estimate

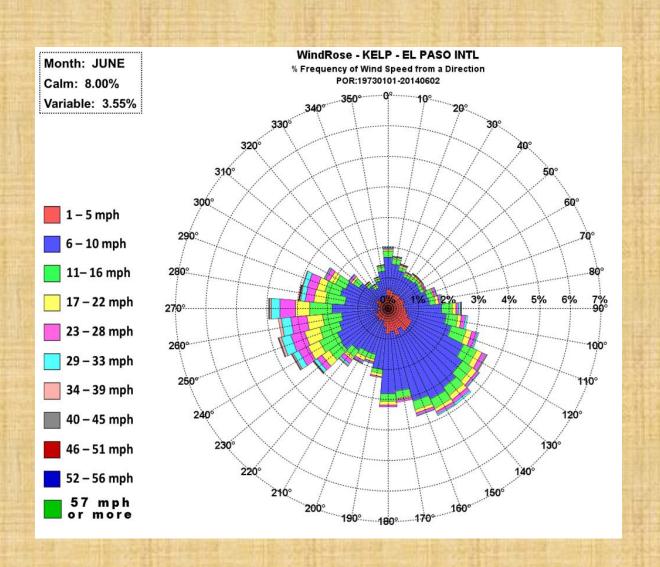
(Percent of normal)



## Special Features

NEW!

http://www.srh.noaa.gov/epz/?n=elpwindrosedata



## Severe Weather Reports May 2014

Date/Time	Location	Event
6/13/2014 415 PM	SANTA TERESA	69 MPH CONVECTIVE GUST
6/13/2014 600 PM	3 S RADIUM SPRINGS DONA ANA	59 MPH CONVECTIVE GUST
6/13/2014 610 PM	1 NW GARFIELD DONA ANA	50 MPH CONVECTIVE GUST
6/13/2014 735 PM	12 SE SILVER CITY GRANT	59 MPH CONVECTIVE GUST
6/13/2014 429 PM	FAR NE EL PASO TOM LEA ES	55 MPH CONVECTIVE GUST
6/17/2014 750 PM	CHAPARRAL	50 MPH CONVECTIVE GUST
6/17/2014 746 PM	NE EL PASO	59 MPH CONVECTIVE GUST
6/17/2014 830 PM	SANTA TERESA	59 MPH CONVECTIVE GUST
6/23/2014 349 PM	7 ESE WHITE SANDS MAIN POST	58 MPH CONVECTIVE GUST
6/23/2014 829 PM	19 ENE EL PASO	54 MPH CONVECTIVE GUST
6/24/2014 720 PM	4 NW FORT BLISS	52 MPH CONVECTIVE GUST
6/30/2014 844 PM	TCS AIRPORT	58 MPH CONVECTIVE GUST

# Got Rainfall? GET READY FOR Join CoCoRaHS! THE MONSOON!

CoCoRaHS is the <u>Community Collaborative Rain</u>, <u>Hail</u>, and <u>Snow Network -- a non-profit</u>, community-based, high-density network of volunteers who take daily measurements of rain, hail, and snow in their backyards.

The data is sent to the National Weather Service, and is used to help improve river forecasts, and flash flood guidance. It also helps meteorologists understand local rainfall and snowfall patterns.

All you need is a standard 4-inch rain gauge, an interest in weather, and an internet connection!

CoCoRaHS has been a nationwide network for many years, and there are several observers in the El Paso/Santa Teresa County Warning Area... especially around Las Cruces and Deming. However, there are only a handful of observers in the El Paso area, and there are plenty of gaps in Sierra, Hudspeth, and Hidalgo counties.

CoCoRaHS is volunteer-friendly. Unlike the NWS COOP Observer Program, the emphasis is on understanding areal distribution of precipitation for specific events — not on building a continuous record for a specific point location. If you're away, you can easily send a "multi-day precipitation" report, or just report "Missing" precipitation. During dry stretches, you can report "daily zeros" enmasse rather than remembering to do it every day.

For more information on CoCoRaHS, visit the NWS El Paso Volunteer Portal at:

www.weather.gov/elpaso/?n=volunteer





There's plenty of CoCoRaHS observers in Las Cruces, but very few in



